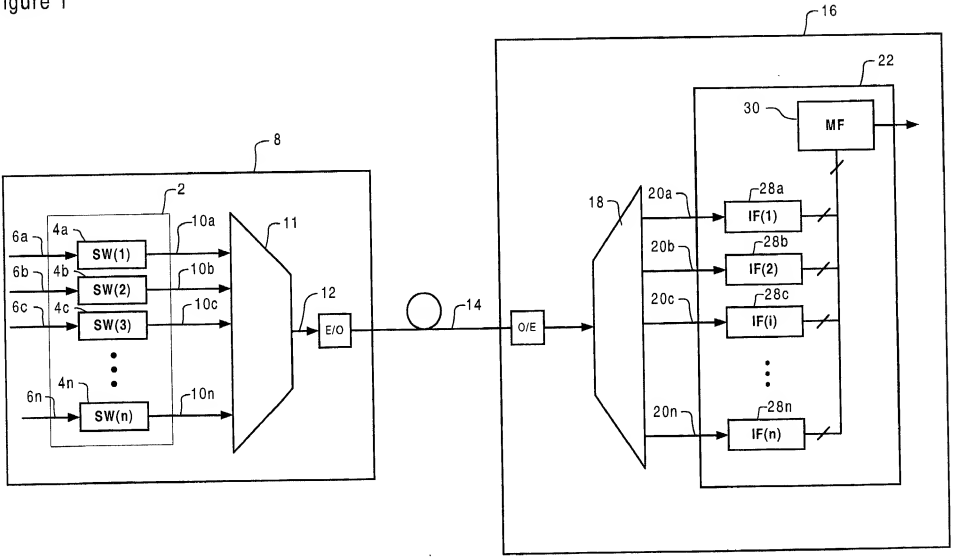
Figure 1


16
22
30
MF
8
2
18
20a
28a
IF(1)
6a
4a
SW(1)
10a
11
20b
28b
IF(2)
6b
4b
SW(2)
10b
12
14
O/E
20c
28c
IF(i)
6c
4c
SW(3)
10c
E/O
20n
28n
IF(n)
6n
4n
SW(n)
10n

TD8050 "EA500050

Figure 2

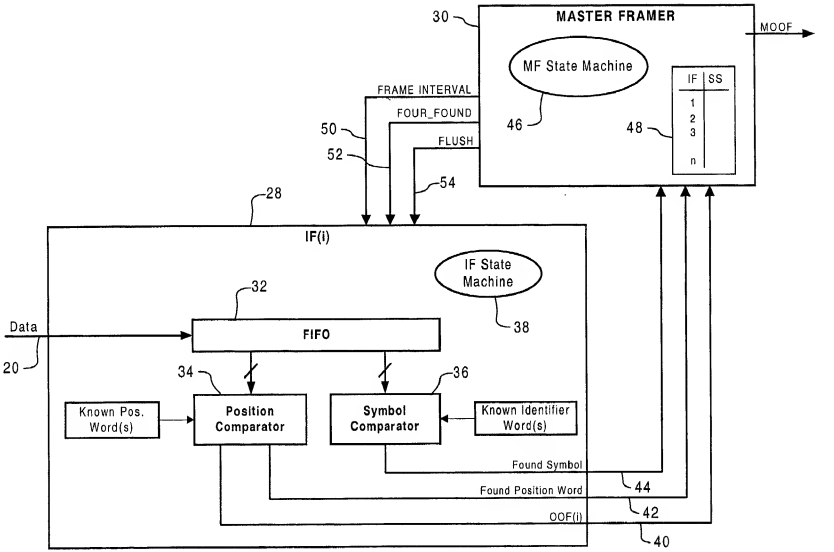


Figure 3a

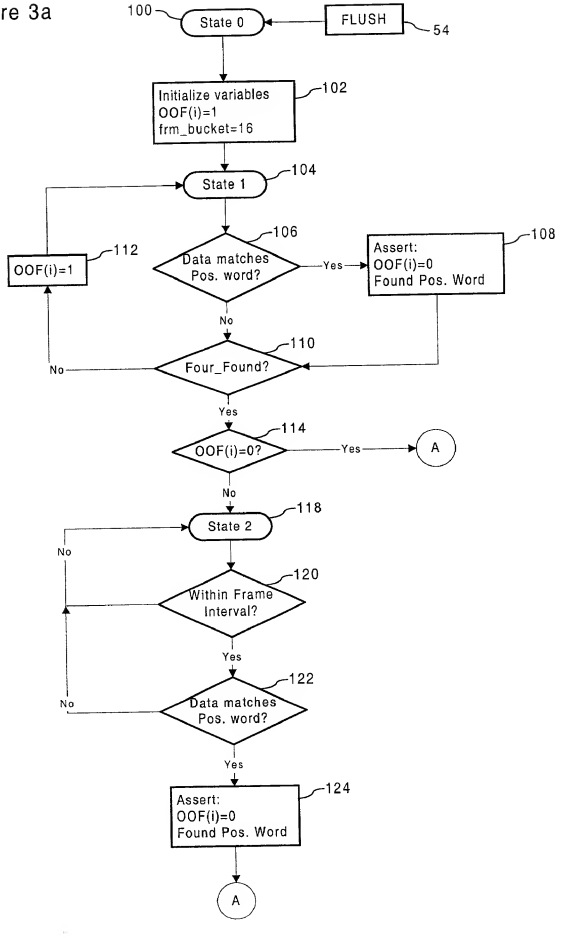

100
State 0
FLUSH
54
Initialize variables
OOF(i)=1
frm_bucket=16
102
State 1
104
106
Data matches
Pos. word?
Yes
Assert:
OOF(i)=0
Found Pos. Word
108
No
OOF(i)=1
112
No
110
Four_Found?
Yes
114
OOF(i)=0?
Yes
A
No
118
State 2
No
120
Within Frame
Interval?
Yes
122
No
Data matches
Pos. word?
Yes
124
Assert:
OOF(i)=0
Found Pos. Word
A

Figure 3b

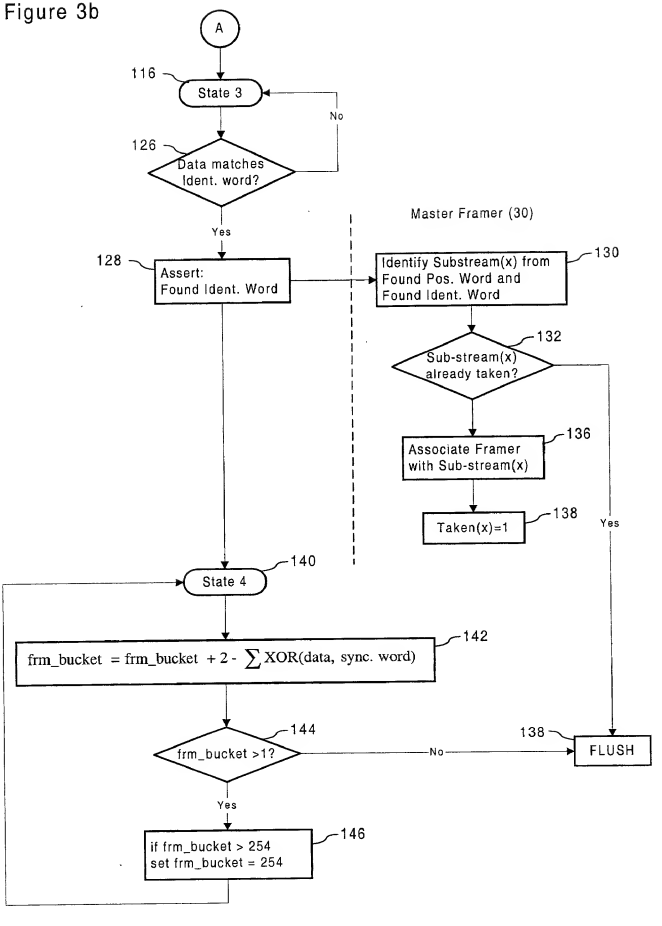
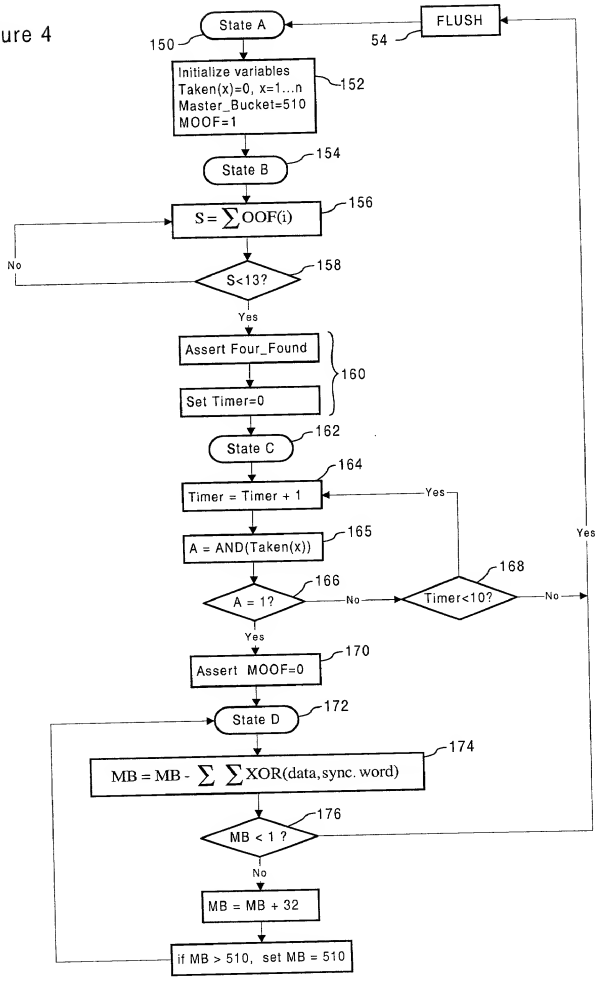

A
116
State 3
No
126
Data matches Ident. word?
Yes
Master Framer (30)
128
Assert: Found Ident. Word
Identify Substream(x) from Found Pos. Word and Found Ident. Word
130
132
Sub-stream(x) already taken?
136
Associate Framer with Sub-stream(x)
138
Taken(x)=1
Yes
140
State 4
142
frm_bucket = frm_bucket + 2 - ∑XOR(data, sync. word)
144
frm_bucket >1?
No
138
FLUSH
Yes
146
if frm_bucket > 254
set frm_bucket = 254

Figure 4




Document ID: 20050023850